CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/MSV/W.No.14/2021-22

Date : 03.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 01.03.2022 to 03.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	23.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 03.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency : **M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985
Date of Testing : 01.03.2022 to 03.03.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:
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ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 01.03.2022 to 03.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 03.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 01.03.2022 to 03.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 03.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 01.03.2022 to 03.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Prajwal

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 04.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency : **M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985
Date of Testing :02.03.2022 to 04.03.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:
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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 04.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing :02.03.2022 to 04.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 04.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing :02.03.2022 to 04.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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IS Code: : IS 2720(Part 5):1985

Date of Testing :02.03.2022 to 04.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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IS Code: : IS 2720(Part 5):1985
Date of Testing :02.03.2022 to 04.03.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 05.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 03.03.2022 to 05.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Agency : **M/S M S V Construction Company, Contractor, Bangalore.**
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IS Code: : IS 2720(Part 5):1985
Date of Testing : 03.03.2022 to 05.03.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 05.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 03.03.2022 to 05.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 05.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 03.03.2022 to 05.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 07.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 05.03.2022 to 07.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 07.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 05.03.2022 to 07.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 07.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 05.03.2022 to 07.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 07.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 05.03.2022 to 07.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 05.03.2022 to 07.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 07.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 05.03.2022 to 07.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 09.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing :07.03.2022 to 09.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 09.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing :07.03.2022 to 09.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 09.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency : **M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985
Date of Testing :07.03.2022 to 09.03.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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JobNo: CACE/BBMP/MSV/W.No.14/2021-22 Date : 23.03.2022

TEST RESULTS OF AGGREGATE SHAPE TEST
(Flakiness & Elongation)

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M/S M S V Construction Company, Contractor, Bangalore.

Name of work : Entrustment of work Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963

Date of Test : 23.03.2022

Type of Mix : Dense Graded Bituminous Macadam

Sl.No.	Flakiness Index Value(%)	Elongation Index Value(%)	Total(Combined Flakiness and Elongation)(%)	Requirements
1	12.20	13.60	25.80	Maximum allowable Combined Flakiness and Elongation Indices for Dense Graded Bituminous Macadam is 35% as per Table 500.8 MORTH Specification.
2	12.60	13.90	26.50	

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 23.03.2022

Aggregate Gradation Test

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS Code	IS 2386(Part 1):1963(RA 2011)
Sample I / D	Hot mix Plant, Bangalore.
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	23.03.2022

Total Weight of Sample: **10000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.50	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.50	715	7.2	7.15	92.85	90 - 100	
19.00	1265	12.7	19.80	80.20	71 - 95	
13.20	1385	13.9	33.65	66.35	56 - 80	
4.75	2514	25.1	58.79	41.21	38 - 54	
2.36	1097	11.0	69.76	30.24	28 - 42	
0.300	1319	13.2	82.95	17.05	7 - 21	
0.075	1156	11.6	94.51	5.49	2 - 8	

Total Weight of Sample: **10000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.5	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.5	685	6.9	6.85	93.15	90 - 100	
19	1415	14.2	21.00	79.00	71 - 95	
13.2	1136	11.4	32.36	67.64	56 - 80	
4.75	2415	24.2	56.51	43.49	38 - 54	
2.360	1159	11.6	68.10	31.90	28 - 42	
0.300	1312	13.1	81.22	18.78	7 - 21	
0.075	1174	11.7	92.96	7.04	2 - 8	

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JobNo: CACE/BBMP/MSV/W.No.14/2021-22 Date : 23.03.2022

TEST RESULTS OF AGGREGATE IMPACT VALUE

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

Source / Location : Hot Mix Plant, Bangalore

BIS Code : IS 2386 Part (4):1963

Type of Mix : Dense Graded Bituminous Macadam

Date of test : 23.03.2022

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	383	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	87	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	296	296	
5	Aggregate Impact value = percent fines	22.72	23.12	22.92
	100* (W2/W1) percent			

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

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Job No: CACE/BBMP/MSV/W.No.14/2021-22 Date: **23.03.2022**

TEST REPORT ON PAVING BITUMEN

Client	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	M/S **M S V Construction Company,** Contractor, Bangalore.
Name of work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS Code	IS 73:2013,IS 1203:1978, IS 1208:1978, IS 1205:1978, IS1448(P-69):1969
Date of Testing	**23.03.2022**
Type of Mix	**Dense Graded Bituminous Macadam , VG 30**
Source of Location	**Hot Mix Plant**

The results of the tests conducted on the bitumen sample using for Dense Graded Bituminous Macadam

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 0C, 100gms, 5sec, 1/10 mm	52	Min 45
2	Softening point, 0C	50	Min 47
3	Ductility at 250C, cm	>100	Min40
4	Flash Point, 0C	282	Min 220

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 25.03.2022

Specific Gravity And Water Absorption Test

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
BIS Code	IS 2386(Part 3):1963
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	23.03.2022 to 25.03.2022

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2020	2022	2023	
2	Weight of basket suspended in water	W_2 g	756	756	756	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1264	1266	1267	
4	Weight of saturated surface dry aggregate in air	W_3 g	2017	2016	2015	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	753	750	748	
6	Weight of oven dried aggregate	W_4 g	2007	2007	2005	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.665	2.676	2.680	2.674
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.701	2.709	2.717	2.709
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.50%	0.45%	0.50%	0.48%

Comments:

→ Maximum allowable Aggregate Water absorption value for Dense Graded Bituminous Macadam is 2.0%(As per MORTH table 500.8)

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 28.03.2022

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer, Maruthisevanagara Sub Division, BBMP, Bangalore.**
Agency	:	M/S **M S V Construction Company,** Contractor, Bangalore.
Name of the Work	:	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	28.03.2022

The results of the tests conducted on the Dense Graded Bituminous Macadam mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.25	10.12	9 Kn (min)
2	Marshal flow, mm	3.68	3.58	2 – 4
3	Percent air voids in Mineral Aggregate	13.79	14.35	13 – 15
4	Voids in Compacted Mix	3.84	4.26	3 – 6
5	Percent Voids filled with Bitumen	68.91	69.57	65 - 75
6	Density, g/cc	2.25	2.27	--

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 28.03.2022

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	M/S **M S V Construction Company,** Contractor, Bangalore.
Name of the Work	:	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	28.03.2022

The results of the tests conducted on the Dense Graded Bituminous Macadam mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.26	10.06	9 Kn (min)
2	Marshal flow, mm	3.67	3.75	2 – 4
3	Percent air voids in Mineral Aggregate	13.77	14.30	13 – 15
4	Voids in Compacted Mix	3.80	4.22	3 – 6
5	Percent Voids filled with Bitumen	68.89	69.55	65 - 75
6	Density, g/cc	2.23	2.27	--

Note:

⇒ This test report shall not be reproduced except in full, without written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples collected at the site.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory